HAZARD RATING
4=EXTREME
3=HIGH
2=MEDIUM
1=SLIGHT
0=INSIGNIFICANT

**SECTION I - GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:**
POWERCOAT EPOXY LD CLEAR PART A

**VOC CONTENT:** <600 GRAMS/LITER OR <5.00 #/GAL.

**CATEGORY:** WATER PROOFING SEALERS & TREATMENTS (USEPA 600 g/L)

**COMMON NAME:** EPOXY COATING

**MANUFACTURER:** VEXCON CHEMICALS, INC.

**ADDRESS:** 7240 STATE RD., PHILA., PA 19135 USA

**EMERGENCY NO:** 1-800-858-2828 (PolySat)

**TELEPHONE NO:** 1-215-332-7709 (Vexcon)

**CHEMTREC NO:** 1-800-424-9300 (CCN#23822)

**PREPARED:** JUNE 1997

**UPDATED:** NOVEMBER 2017

**PREPARED BY:** DARRYL F. MANUEL, PRESIDENT

**SECTION II - HAZARD IDENTIFICATION**

**CLASSIFICATION OF MIXTURE**
FLAMMABLE LIQUID – CATEGORY 3
CARCINOGEN – CATEGORY 2
SPECIFIC TARGET ORGAN TOXICANT (CENTRAL NERVOUS SYSTEM) – CATEGORY 3
SPECIFIC TARGET ORGAN TOXICANT (RESPIRATORY IRRITANT) – CATEGORY 3
ASPIRATION TOXICANT – CATEGORY 1

**SINGLE WORD: DANGER**

**HAZARD STATEMENTS:** FLAMMABLE LIQUID AND VAPOR, MAY BE FATAL IF SWALLOWED AND ENTER AIRWAYS. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. SUSPECTED OF CAUSING CANCER.

**ENVIRONMENTAL HAZARDS:** EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**PRECAUTIONARY STATEMENT: FLAMMABLE** USE ONLY WITH ADEQUATE VENTILATION. IF SWALLOWED, DO NOT INDUCE VOMITING: USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE EQUIPMENT IS ADVISED WHEN HANDLING THIS PRODUCT: ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL: USE OF RESPIRATORS IS ADVISED WHEN USING PRODUCT IN CONFINED AREA. KEEP AWAY FOR HEAT/SPARKS/OPEN FLAMES/HOT SURFACES – NO SMOKING

**SECTION III HAZARDOUS INGREDIENTS**

<table>
<thead>
<tr>
<th>MATERIAL OR COMPONENTS</th>
<th>CAS NO</th>
<th>%</th>
<th>HAZARD DATA</th>
<th>UN #</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE ACRYLATE POLYMER</td>
<td>25036-16-2</td>
<td>20-40%</td>
<td>ND</td>
<td>199</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC (AROMATIC 100)</td>
<td>64742-95-6</td>
<td>15-30%</td>
<td>TLV 50ppm</td>
<td>126</td>
</tr>
<tr>
<td>THE AROMATIC SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPONENT</td>
<td>CAS NO</td>
<td>MAX %</td>
<td>HAZARD DATA</td>
<td>UN #</td>
</tr>
<tr>
<td>1,2,4-TRIMETHYL BENZENE (PSEUDOCUMENE)</td>
<td>95-63-6</td>
<td>&lt;32.0 %</td>
<td>DOT LABEL: FLAMMABLE LIQUID OSHA PEL Not Estab. ACGIH TLV 25 ppm (TWA) NIOSH REL: 25 ppm (TWA) SARA SECTION 313</td>
<td>199</td>
</tr>
<tr>
<td>XYLENES</td>
<td>1330-20-7</td>
<td>&lt;2.2%</td>
<td>DOT LABEL: FLAMMABLE LIQUID OSHA Z1 100ppm (TWA) ACGIH TLV 100ppm (TWA) NIOSH REL 100 ppm (TWA) SARA SECTION 313 RQ 100 lbs</td>
<td>130</td>
</tr>
<tr>
<td>CUMENE</td>
<td>98-82-8</td>
<td>&lt;1.1%</td>
<td>OSHA Z1 50ppm (TWA) ACGIH TLV 50ppm (TWA) SARA SECTION 313</td>
<td>191</td>
</tr>
</tbody>
</table>

**SECTION IV - FIRST AID MEASURES**

**HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE**

**ROUTES OF EXPOSURE:**

**INHALATION:**
THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION. AROMATIC SOLVENT COMPONENT.

**SKIN CONTACT:**
THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. AROMATIC SOLVENT COMPONENT.

**SKIN ABSORPTION:**
THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. AROMATIC SOLVENT COMPONENT.

**EYE CONTACT:**
THIS PRODUCT MAY BE AN EYE IRRITANT. AROMATIC SOLVENT COMPONENT.

**INGESTION / INHALATION:**
CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING. SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION, OR FROM VOMITING, MAY CAUSE BRONCHOPNEUMONIA OR PULMONARY EDEMA. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

**EFFECTS OF OVEREXPOSURE:**
TLV 50 ppm AR-100 ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
ACUTE OVEREXPOSURE: ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATE IRRITATION BY LIQUID TO SKIN AND EYES. PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP IS COMPLETE. PREVENT ADDITIONAL DISCHARGE OF MATERIAL. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE IN WELL VENTILATED AREA, EQUIVALENT TO FRESH AIR. WITH ANOTHER SUITABLE ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL, AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.

SECTION VI ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION (FLARES, FLAMES, PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP IS COMPLETE. PREVENT ADDITIONAL DISCHARGE OF MATERIAL. IF POSSIBLE TO DO SO WITHOUT HAZARD, FOR LARGE SPILL, IMPLEMENT CLEAN UP PROCEDURES. FOR LARGE SPILL, IMPLEMENT CLEAN UP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. DIKE SPILL AREA WITH SAND OR EARTH TO CONTAIN SPILLED LIQUID AND PREVENT SPREADING. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR WITH ANOTHER SUITABLE ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

SECTION VII HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS: LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WIGHTED TLV RANGES. IF LOCAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. OTHER SPECIAL PRECAUTIONS SUCH AS RESPIRATORY MASKS OR ENVIRONMENTAL CONTAINMENT DEVICES MAY BE REQUIRED IN EXTREME CASES.

RESPIRATORY (SPECIFY IN DETAIL): THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE TIME WEIGHTED TLV. USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIR-PACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR RESPIRATOR. CHEMICAL CARTRIDGE RESPIRATOR: FULL FACE ORGANIC VAPOR RESPIRATOR (SPECIFY IN DETAIL): USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR CHEMICAL CARTRIDGE RESPIRATOR: FULL FACE ORGANIC VAPOR RESPIRATOR IF EYE PROTECTION IS NEEDED. EYES: CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY. GLOVES: THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. IMPERMEABLE GLOVES, CHEMICAL RESISTANT) SUCH AS NITRILE, LATEX OR NITRILE, IMPERMEABLE CHEMICAL GLOVES AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.
**SECTION X STABILITY AND REACTIVITY**

<table>
<thead>
<tr>
<th>CONDITIONS CONTRIBUTING TO INSTABILITY</th>
<th>THIS PRODUCT IS STABLE.</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCOMPATIBILITY</td>
<td>THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS OR BASES, AND SELECTED AMINES.</td>
</tr>
<tr>
<td>HAZARDOUS DECOMPOSITION PRODUCTS</td>
<td>THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE, AND UNIDENTIFIED ORGANICS.</td>
</tr>
<tr>
<td>CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION</td>
<td>N/A WILL NOT OCCUR</td>
</tr>
</tbody>
</table>

**SECTION XI TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>ROUTE OF EXPOSURE</th>
<th>CONCLUSION/REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>INHALATION</td>
<td>TOXICITY: MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, BASED ON TEST DATA FOR THE MATERIAL.</td>
</tr>
<tr>
<td></td>
<td>IRRITATION: MAY BE IRITATING TO THE RESPIRATORY TRACT. THE EFFECTS ARE REVERSIBLE. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.</td>
</tr>
<tr>
<td>INGESTION</td>
<td>TOXICITY: LD50 &gt;3000 mg/kg MINIMALY TOXIC. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.</td>
</tr>
<tr>
<td>SKIN</td>
<td>TOXICITY: LD50 &gt;3160 mg/kg MINIMALY TOXIC. BASED ON TEST DATA FOR THE MATERIAL.</td>
</tr>
<tr>
<td></td>
<td>IRRITATION: MILDLY IRRITATING TO SKIN WITH PROLONGED EXPOSURE. BASED ON TEST DATA FOR THE MATERIAL.</td>
</tr>
<tr>
<td>EYE</td>
<td>IRRITATION: MAY CAUSE MILD, SHORT-LASTING DISCOMFORT TO EYES. BASED ON TEST DATA FOR THE MATERIAL.</td>
</tr>
<tr>
<td>CHRONIC/OTHER EFFECTS</td>
<td>VAPOR/AEROSOL CONCENTRATIONS ABOVE RECOMMENDED EXPOSURE LEVELS ARE IRRITATING TO THE EYES AND RESPIRATORY TRACT, MAY CAUSE HEADACHES, SIZZINESS, ANESTHESIA, DROWNNESS, UNCONSCIOUSNESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DEATH.</td>
</tr>
<tr>
<td></td>
<td>PROLONGED AND/OR REPEATED SKIN CONTACT WITH LOW VISCOSITY MATERIALS MAY DEFAT THE SKIN RESULTING IN POSSIBLE IRRITATION AND DERMATITIS.</td>
</tr>
<tr>
<td></td>
<td>SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OF FROM VOMITING MAY CAUSE CHEMICAL PNEUMONITIS OR PULMONARY EDEMA.</td>
</tr>
<tr>
<td>CONTAINS CUMENE</td>
<td>REPEATED INHALATION EXPOSURE OF CUMENE VAPOR PRODUCED DAMAGES IN THE KIDNEY OF MALE RATS ONLY. THESE EFFECTS ARE BELIEVED TO BE SPECIES SPECIFIC AND ARE NOT RELEVANT TO HUMANS.</td>
</tr>
</tbody>
</table>

**SECTION XII ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

Material – Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**MOBILITY**

Material – Highly volatile, will partition rapidly to air, not expected to partition to sediment and wastewater solids.

**PERSISTENCE AND DEGRADABILITY**

**BIODegradation**

Material – Expected to readily biodegradable.

**HYDROLYSIS**

Material – Transformation due to hydrolysis not expected or be significant.

**PHOTOLYSIS**

Material – Transformation due to photolysis not expected to be significant.

**ATMOSPHERIC**

Material – Expected to degrade rapidly.

**SECTION XIII DISPOSAL CONSIDERATIONS**

**AQUATIC TOXICITY (E.C. 96 HR. TLW):** DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATERS OR WATERWAYS UNLESS AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA).

**WASTE DISPOSAL METHOD:** IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, FEDERAL, STATE, AND LOCAL REGULATIONS. TREATMENT, TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA, 40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.

**SECTION XIV TRANSPORTATION INFORMATION**

<table>
<thead>
<tr>
<th>Governing</th>
<th>Mode</th>
<th>UN Number</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Packin g Group</th>
<th>Quantity Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>GROUND</td>
<td>NON REGULATE D</td>
<td>NON REGULATE D</td>
<td>NON REGULATE D</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>IATA</td>
<td>AIR</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>OCEAN</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
</tbody>
</table>

**MARINE POLLUTANT:** THIS PRODUCT DOES CONTAIN A MATERIAL. ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B) AROMATIC 100.

**SECTION XV REGULATORY INFORMATION**

**TSCA:** THE SOLVENT PORTION OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AS A UVCB (UNKNOWN, VARIABLE COMPOSITION OR BIOLOGICAL) CHEMICAL AT CAS REGISTRY NUMBER 64742-95-6 (AROMATIC 100).

**CERCLA:** IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 1-800-424-8802 or 202-426-2675.

**NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT.**

**SARA TITLE III:** UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: DELAYED HEALTH, FIRE.

**ADDITIONAL REGULATORY CONCERNS:** (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)

**MARINE POLLUTANTS:** THIS PRODUCT DOES CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B). SEE SECTION XIV.

**CERCLA / RQ:** NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A).

**TSCA:** IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES.
## SECTION XVI OTHER INFORMATION

<table>
<thead>
<tr>
<th>PREPARED BY</th>
<th>DARRYL MANUEL / PRESIDENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPANY:</td>
<td>VEXCON CHEMICALS, INC.</td>
</tr>
<tr>
<td>ADDRESS:</td>
<td>7240 STATE RD., PHILA., PA 19135 USA</td>
</tr>
</tbody>
</table>

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Vexcon provides no warranties, expressed or implied, and assumes no responsibility for the accuracy or completeness of the information contained herein.

### HMIS HAZARD RATINGS:

This information is for people trained in:
- National Paint and Coatings Associations (NPCA)
- Hazardous Materials Identification System (HMIS)
- National Fire Protection Association (NFPA 704)

<table>
<thead>
<tr>
<th></th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
</tr>
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<tbody>
<tr>
<td>POWERCOAT EPOXY LD CLEAR PART A</td>
<td>3 -- SERIOUS</td>
<td></td>
</tr>
<tr>
<td>HEALTH</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**KEY**

- 4 -- SEVERE
- 3 -- SERIOUS
- 2 -- MODERATE
- 1 -- SLIGHT
- 0 -- MINIMAL
SAFETY DATA SHEET
VEXCON NO. CP106
POWERCOAT EPOXY LD CLEAR PART B

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
POWERCOAT EPOXY LD CLEAR PART B
VOC CONTENT: <600 GRAMS/LITER OR <5.00 #/GAL.
CATEGORY: WATER PROOFING SEALERS & TREATMENTS (USEPA 600 g/L)

COMMON NAME: EPOXY COATING
MANUFACTURER: VEXCON CHEMICALS, INC.
ADDRESS: 7240 STATE RD., PHILA., PA 19135 USA
TELEPHONE NO: 1-215-332-7709 (Vexcon)
CHEMTREC NO: 1-800-424-9300 (CCN#23822)
PREPARED: JUNE 1997
UPDATED: NOVEMBER 2017
PREPARED BY: DARRYL F. MANUEL, PRESIDENT

SECTION II – HAZARD IDENTIFICATION

CLASSIFICATION OF MIXTURE
FLAMMABLE LIQUID – CATEGORY 3
CARCINOGEN – CATEGORY 2
SPECIFIC TARGET ORGAN TOXICANT (CENTRAL NERVOUS SYSTEM) – CATEGORY 3
SPECIFIC TARGET ORGAN TOXICANT (RESPIRATORY IRRITANT) – CATEGORY 3
ASPIRATION TOXICANT – CATEGORY 1

SINGLE WORD: DANGER

HAZARD STATEMENTS: FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTER AIRWAYS. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. SUSPECTED OF CAUSING CANCER.

ENVIRONMENTAL HAZARDS: EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

PRECAUTIONARY STATEMENT: FLAMMABLE USE ONLY WITH ADEQUATE VENTILATION; IF SWALLOWED, DO NOT INDUCE VOMITING; USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE EQUIPMENT IS ADVISED WHEN HANDLING THIS PRODUCT; ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL; USE OF RESPIRATORS IS ADVISED WHEN USING PRODUCT IN CONFINED AREA. KEEP AWAY FOR HEAT/SPARKS/OPEN FLAMES/HOT SURFACES – NO SMOKING

SECTION III HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>MATERIAL OR COMPONENTS</th>
<th>CAS NO.</th>
<th>%</th>
<th>HAZARD DATA</th>
<th>UN#</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISPHENOL A EPOXY RESIN</td>
<td>25068-36-6</td>
<td>5-20% N/D</td>
<td>3082</td>
<td></td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC</td>
<td>64742-95-6</td>
<td>80-95% TLV 50ppm (TWA)</td>
<td>1268</td>
<td></td>
</tr>
</tbody>
</table>

THE AROMATIC SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NO.</th>
<th>MAX %</th>
<th>HAZARD DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,4-TRIMETHYL BENZENE (PSEUDOCUMENE)</td>
<td>95-63-6</td>
<td>&lt;32.0% DOT LABEL: FLAMMABLE LIQUID OSHA PEL Not Estab. ACGIH TLV 25 ppm (TWA) NIOSH REL: 25 ppm (TWA) SARA SECTION 313</td>
<td>1993</td>
</tr>
<tr>
<td>XYLENES</td>
<td>1330-20-7</td>
<td>&lt;2.2% DOT LABEL: FLAMMABLE LIQUID OSHA Z1 100ppm (TWA) ACGIH TLV 100ppm (TWA) NIOSH REL 100 ppm (TWA) SARA SECTION 313 RQ 100 lbs</td>
<td>1307</td>
</tr>
<tr>
<td>CUMENE</td>
<td>98-82-6</td>
<td>&lt;1.1% OSHA Z1 50ppm (TWA) ACGIH TLV 50ppm (TWA) SARA SECTION 313</td>
<td>1918</td>
</tr>
</tbody>
</table>

SECTION IV FIRST AID MEASURES

HEALTH HAZARD DATA HAZARD CLASSIFICATION
BASIS FOR CLASSIFICATION SOURCE

ROUTES OF EXPOSURE:

INHALATION: THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION. AROMATIC SOLVENT COMPONENT.

SKIN CONTACT: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. AROMATIC SOLVENT COMPONENT.

SKIN ABSORPTION: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. AROMATIC SOLVENT COMPONENT.

EYE CONTACT: THIS PRODUCT MAY BE AN EYE IRRITANT. AROMATIC SOLVENT COMPONENT.
SECTION V FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:
EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY. WATER MAY BE USED TO REDUCE THE RATE OF BURNING AND FOR COOLING PURPOSES. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

GENERAL HAZARD:
FLAMMABLE LIQUID - CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASH POINT. STATIC DISCHARGE - MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE. "EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE CUT, WEAKEN, DRAZEN, SOLVENT, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY Drained, PROPERLY Bunged AND Promptly Returned TO A Drum Reconditioner, OR Properly Disposed of.

ELECTRO-STATIC ACCUMULATION HAZARD:
USE PROPER GROUNDING.

SECTION VI HEALTH HAZARD INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
ELIMINATE SOURCES OF IGNITION (FLARES, FLAMES, PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SpILL UNTIL CLEAN-UP IS COMPLETE. PREVENT ADDITIONAL DISCHARGE OF MATERIAL, IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR LARGE SPILLS, IMPLEMENT CLEAN-UP PROCEDURES. FOR LARGE SPILLS, IMPLEMENT CLEAN-UP PROCEDURES. IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. DIKE SPILL AREA WITH SAND OR EARTH TO CONTAIN SPILLED LIQUID AND PREVENT SPREADING. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR WITH ANOTHER SUITABLE ABSORBENT MATERIAL AND SHOVED INTO CONTAINERS. CONSULT LOCAL DISPOSAL REGULATIONS. MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.

SECTION VII HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS:
PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE USE. CONTAINERS USED WITH THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS:
LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PROPER VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WEIGHTED TLV RANGES. IF LOCAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. OTHER SPECIAL PRECAUTIONS SUCH AS RESPIRATORY MASKS OR ENVIRONMENTAL CONTAINMENT DEVICES MAY BE REQUIRED IN EXTREME CASES.

RESPIRATORY (SPECIFY IN DETAIL):
THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE WEIGHTED TLV: USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIR-PACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE. FULL FACE ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.

EYES:
CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

GLOVES:
THE USE OF IMPERVIOUS GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. IMPERVIOUS GLOVES, (CHEMICAL RESISTANT): SUCH OR SIMILAR.

OTHER CLOTHING AND EQUIPMENT:
TO PREVENT BODY CONTACT. IMPERVIOUS CLOTHING AND BOOTS ARE RECOMMENDED. IMPERVIOUS APRONS AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: (760mmHg)
64°F - 133°F (Acetone)

MELTING/ Freezing Point:
-195°C - -193°F (Acetone)

VAPOR PRESSURE:
226mmHg at 88°F / 20°C (acetone)

VAPOR DENSITY (AIR=1):
2.0 (acetone)

SOLUBILITY IN H20 % BY WT:
% VOLATILEs BY VOL:
MISCELLANEOUS:
70-96%

EVAPORATION RATE (BuA=1):
6.0 FAST (acetone)

SPECIFIC GRAVITY (H20=1):
0.815

pH (AS IS):
N/A

PH (1% SOLN):
N/A

APPEARANCE AND ODOR:
CLEAR LIQUID WITH ACETONE ODOR
**SECTION IX STABILITY AND REACTIVITY**

**CONDITIONS CONTRIBUTING TO INSTABILITY:**

This product is stable under recommended storage conditions. Avoid temperatures above 300°C (672°F). Potentially violent decomposition can occur above 350°C (662°F). Generation of gas during decomposition can cause pressure in closed systems. Pressure buildup can be rapid.

**INCOMPATIBILITY:**

This product is incompatible with strong oxidizing agents, strong acids or bases, and selected amines.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, and unidentified organics.

**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:**

N/A will not occur.

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**SECTION XI TOXICOLOGICAL INFORMATION**

**ROUTE OF EXPOSURE**

**CONCLUSION/REMARKS**

**INHALATION**

TOXICITY: MAY CAUSE CENTRA NERVOUS SYSTEM EFFECTS. BASED ON TEST DATA FOR THE MATERIAL.

IRRITATION: MAY BE IRRITATING TO THE RESPIRATORY TRACT. THE EFFECTS ARE REVERSIBLE. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.

**INGESTION**

TOXICITY: LD50 >3000 mg/kg.

MINIMALLY TOXIC, BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.

**SKIN**

TOXICITY: LD50 >5160 mg/kg.

MINIMALLY TOXIC, BASED ON TEST DATA FOR THE MATERIAL.

**IRRITATION: MILDLY IRRITATING TO SKIN WITH PROLONGED EXPOSURE. BASED ON TEST DATA FOR THE MATERIAL.**

**EYE**

IRRITATION: MAY CAUSE MILD, SHORT-LASTING DISCOMFORT TO EYES. BASED ON TEST DATA FOR THE MATERIAL.

**CHRONIC/OTHER EFFECTS**

VAPOR/AEROSOL CONCENTRATIONS ABOVE RECOMMENDED EXPOSURE LEVELS ARE IRRITATING TO THE EYES AND RESPIRATORY TRACT, MAY CAUSE HEADACHES, SIZZINESS, ANESTHESIA, DROWNING, UNCONSCIOUSNESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DEATH.

PROLONGED AND/OR REPEATED SKIN CONTACT WITH LOW VISCOSITY MATERIALS MAY DEFAT THE SKIN RESULTING IN POSSIBLE IRRITATION AND DERMATITIS.

SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OF FROM VOMITING MAY CAUSE CHEMICAL PNEUMONITIS OR PULMONARY EDEMA.

**CONTAINS CUMENE**

REPEATED INHALATION EXPOSURE OF CUMENE VAPOR PRODUCED DAMAGES IN THE KIDNEY OF MALE RATS ONLY. THESE EFFECTS ARE BELIEVED TO BE SPECIES SPECIFIC AND ARE NOT RELEVANT TO HUMANS.

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**SECTION XII ECOLOGICAL INFORMATION**

**ECOTOXICITY**

MATERIAL – EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**MOBILITY**

MATERIAL – HIGHLY VOLATILE, WILL PARTITION RAPIDLY TO AIR. NOT EXPECTED TO PARTITION TO SEDIMENT AND WASTEWATER SOLIDS.

**PRESENCE AND DEGRADABILITY**

**BIODEGRADATION**

MATERIAL – EXPECTED TO READILY BIODEGRADABLE.

**HYDROLYSIS**

MATERIAL - TRANSFORMATION DUE TO HYDROLYSIS NOT EXPECTED TO BE SIGNIFICANT.

**PHOTOLYSIS**

MATERIAL – TRANSFORMATION DUE TO PHOTOLYSIS NOT EXPECTED TO BE SIGNIFICANT.

**ATMOSPHERIC OXIDATION**

MATERIAL – EXPECTED TO DEGRADE RAPIDLY IN AIR.

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**SECTION XIII DISPOSAL CONSIDERATIONS**

**AQUATIC TOXICITY (E.G. 96 HR. TLm):** DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATERS OR WATERWAYS UNLESS AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA).

**WASTE DISPOSAL METHOD:** IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, FEDERAL, STATE, AND LOCAL REGULATIONS. TREATMENT, TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA, 40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LANDFILL SITES ARE AVAILABLE.

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**SECTION XIV TRANSPORTATION INFORMATION**

**TSCA:** THE INFORMATION GIVEN IS BASED ON DATA AVAILABLE FOR THE MATERIAL, THE COMPONENTS OF THE MATERIAL, AND SIMILAR MATERIALS.

**ECOTOXICITY**

MATERIAL – EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**MOBILITY**

MATERIAL – HIGHLY VOLATILE, WILL PARTITION RAPIDLY TO AIR. NOT EXPECTED TO PARTITION TO SEDIMENT AND WASTEWATER SOLIDS.

**ATMOSPHERIC OXIDATION**

MATERIAL – EXPECTED TO DEGRADE RAPIDLY IN AIR.

---

**SECTION XV REGULATORY INFORMATION**

**TSCA:** THE SOLVENT PORTION OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AS A UVCB (UNKNOWN, VARIABLE COMPOSITION OR BIOLOGICAL) CHEMICAL AT CAS REGISTRY NUMBER 64742-95-6 (AROMATIC 100).

**CERCLA:** IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 1-800-424-8802 or 202-426-2675. NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT.

**SARA TITLE III:** UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERSPILL AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: DELAYED HEALTH, FIRE.

**ADDITIONAL REGULATORY CONCERNS:** (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)

**CERCLA / RQ:** NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A).

**TSCA:** IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES
### SECTION XVI OTHER INFORMATION

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<tbody>
<tr>
<td>COMPANY</td>
<td>VEXCON CHEMICALS, INC.</td>
</tr>
<tr>
<td>ADDRESS</td>
<td>7240 STATE RD., PHILA., PA 19135 USA</td>
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### Hmis Hazard Ratings:

This information is for people trained in:
- National Paint and Coatings Associations (NPCA)
- Hazardous Materials Identification System (HMIS)
- National Fire Protection Association (NFPA 704)

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**Key**

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